BRUHAT BANGALORE MAHANAGARA PALIKE

BBMP/2020-21/OW/WORK_INDENT45316

APPROVED SCHEDULE - B

No.EE/BTP/BBMP/E-PMT/09/2020-21, Date: 12.11.2020

Name of Work: Construction of RO Plant in ward no 06 Byatarayanapura Sub Division

Sl. No.	Approved Qty.	Description	Unit	Approved Tender Rates of S Narayana Rao ( )	
				In Figures	In Words
1	24.78	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / item no 2.3 page no 6 of PWD SR 2018-19	Cum	319.69	Rupees Three Hundred Nineteen and Sixty Nine Paise Only
2	4.08	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3 of PWD SR 2018-19	Cum	5455.06	Rupees Five Thousand Four Hundred Fifty Five and Six Paise Only
3	2.71	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Pg No.25 Item No 5.6 PWD SR 2018-19	Cum	4914.04	Rupees Four Thousand Nine Hundred Fourteen and Four Paise Only
4	1.83	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Pg No.25 Item No 5.9 PWD SR 2018-19	Cum	5862.42	Rupees Five Thousand Eight Hundred Sixty Two and Forty Two Paise Only
5	24.78	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9, Pg No.7, Item No.2.10 PWD SR 2018-19	Cum	214.91	Rupees Two Hundred Fourteen and Ninety One Paise Only
6	33.96	KSRB 5-15 : Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., complete as per specifications. KBS No.5.4, Pg No 27, Item No 5.28 PWD SR 2018-19	Sqm	867.12	Rupees Eight Hundred Sixty Seven and Twelve Paise Only
7	8.74	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing , main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Page No. 18, Item No. 4.48, PWD SR 2018-19	Cum	5820.72	Rupees Five Thousand Eight Hundred Twenty and Seventy Two Paise Only
8	0.7	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 Page No. 18 / Item No. 4.46.2, PWD SR 2018-19	Tonne	75876.85	Rupees Seventy Five Thousand Eight Hundred Seventy Six and Eighty Five Paise Only

Signature of the contractor

Executive Engineer

Sl. No.	Approved Qty.	Description	Unit	Approved Tender Rates o S Narayana Rao ( )	
				In Figures	In Words
9	65.19	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Page No. 16 / Item No. 4.31 PWD SR 2018-19	Sqm	382.77	Rupees Three Hundred Eighty Two and Seventy Seven Paise Only
10	18.81	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 116, Item No. 15.21 of PWD SR 2018-19	Sqm	251.26	Rupees Two Hundred Fifty One and Twenty Six Paise Only
11	37.23	KSRB15-3.12 :Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 114, Item No. 15.20 of PWD SR 2018-19 (Inside Plastering)	Sqm	271.58	Rupees Two Hundred Seventy One and Fifty Eight Paise Only
12	56.04	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. Page No. 117, Item No. 15.33, PWD SR 2018-19	Sqm	34.21	Rupees Thirty Four and Twenty One Paise Only
13	42.03	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 116 / Item No. 15.17, PWD SR 2018-19 (Outside Wall)	Sqm	261.95	Rupees Two Hundred Sixty One and Ninety Five Paise Only
14	93.27	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. Page No. 119 / Item No. 15.49.1, PWD SR 2018-19	Sqm	117.61	Rupees One Hundred Seventeen and Sixty One Paise Only
15	42.03	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. Page No. 120 / Item No. 15.53.2, SR 2018-19	Sqm	50.25	Rupees Fifty and Twenty Five Paise Only
16	29.43	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. (Page No. 123 Item No. 15.74 of SR 2018-19).	Sqm	101.57	Rupees One Hundred One and Fifty Seven Paise Only
17	12.41	Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete. (P.No. 109, I.No. 14.43 of SR 2018-19).	Sqm	1175.05	Rupees One Thousand One Hundred Seventy Five and Five Paise Only
18	4.8	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. P.No. 112, I.No. 14.62 of PWD SR 2018-19	Sqm	1317.25	Rupees One Thousand Three Hundred Seventeen and Twenty Five Paise Only

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Sl No.	Approved Qty.	Description	Unit	Approved Tender Rates of S Narayana Rao ( )	
				In Figures	In Words
19	1.08	KSRB 7.7 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm. weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12.1 / 7.12.2 / 7.12.3 / 7.12 Page No. 34, Item No. 7.07 PWD SR 2018-19	Sqm	4167.74	Rupees Four Thousand One Hundred Sixty Seven and Seventy Four Paise Only
20	6.3	KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m. Specification No. KBS 7.10 / 7.12. (P.No. 33, I.No. 7.5 of CSR 2018-19)	Sqm	2787.4	Rupees Two Thousand Seven Hundred Eighty Seven and Forty Paise Only
21	6.3	KSRB 7.15 : Providing, fabricating, assembling and fixing in position aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1mm. with thickness of 2mm. having section weight, plain sections 1.054kg/m, single grove thickness 1.95mm. section weight 1.094kg/m, double grove thickness 1.9mm section weight 1.094kg/m and bottom member 114.3 mm. x 44.45mm. thickness 3.18mm. weight 2.646 kg/m; aluminium louvres section of size 36.5mmx34.93mm 1.45mm. thick section weight 0.429kg/m; bottom portions provided with 12mm. thick prelaminated sheet both sides of approved colour lamination exterior grade upto 0.9m height, spacing of vertical member not exceeding 0.6 m. c to c; sections are cut to the required lengths, joints mitered and corners grinded subdividing frames tennoned and rivetted to the frames; the assembled frame stiffened with corner angles, stripped and fixed with screws, rawl plugs and teak wood gutties to R.C.C.columns on sides, R.C.C. lintels or beams at top and floor at bottom, including cutting chistelling and making good with cement mortar to match the surface; providing and fixing 5.5mm. thick plain glass for middle portion viz., 0.9m. to 2.13 m. and top panel with louvres sections; the glass and panels fitted withglazing clips of 19mmx17.3mm. of thickness 0.9mm. weight 0.124kg/ m, aluminium sections treated for removal of any rust and prevention of further rust formation, coated with greasy materials for non-adherence of mortars or any other sticky materials; vertical members embedded in the flooring by making suitable sized holes and fixing with cement mortar, with necessary opening for fixing of door of standard size (excluding cost of door) all the frame throughly cleaned, free from rust, scale or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. using aluminium section anodized to 12 - 15 microns. Page No. 37, Item No. 7.15.1 PWD SR 2018-19	Sqm	3596.79	Rupees Three Thousand Five Hundred Ninety Six and Seventy Nine Paise Only

Signature of the contractor

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Sl. No.	Approved Qty.	Description	Unit	Approved Tender Rates of S Narayana Rao ( )	
				In Figures	In Words
22	8.1	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 6, I.NO - 2.3, PWD SR 18-19)	Cum	319.69	Rupees Three Hundred Nineteen and Sixty Nine Paise Only
23	30	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2, PWD SR 18-19)	Mtr	397.74	Rupees Three Hundred Ninety Seven and Seventy Four Paise Only
24	8.1	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 7, I.NO - 2.11, PWD SR 18-19)	Cum	129.37	Rupees One Hundred Twenty Nine and Thirty Seven Paise Only
25	1	10000 LPD R.O. Plant RAW WATER PUMP:Quantity : 1No.Type: Centrifugal Mono Block MOC & Make : UKL Motor Rating : 0.75 HP, PRESSURE SAND FILTER: Quantity : 1No., Capacity : 1000 LPH , MOC & Make of Housing : UKL, MOC & Make of Cartridge : UKL, Capcity : 100 LPH, MOC & Make of Vessel : UKL, Diameter : 40 mm, Type of Valve : Single Multiport, media : Support bed + Sand, MICRON CARTRIDGE FILTER :, Quantity : 1 Set., Filter Rating : 5 Microns, Size : 20 " Long, ANTISCALANT DOSING PUMPS:Quanity : 1 Set, Type : Electro - magnetic, Capacity : 1.5 LPH @ 4 Bar, HIGH PRESSURE PUMP:Quantity : 1 No, Capacity : 1700 LPH,Type of Pump : Vertical Multistage Centrigugal Pump, MOC : SS 304, Motor Rating : 2 HP, 3 Phase, Maximum Pressure : 12 Kg/ cm2, Make : UKL, RESERVE OSMOSIS SYSTEM : Quantity : 1 No, Capacity : 1000 LPH Module Type, Membrane Specifications {Polyamde}, Make of Membrane : UKL, UV STERILISER, Max. Treatment Flow : 1 m3/hr, No. of Lamps : 1 No, Wattage : 39 W, Efficiency : 99.99%, Material of Construction : SS 304, PRODUCT WATER QUALITY: Appearance : Crystal Clear, Abide by the ISO Standards, S S Tank : 304 Grade with 16 guage 2000 liters Capacity 304 Grade 10 Gauage SS Pipe {with stream valve} 25 Ft, COIN BOOTH DISPENSING UNIT: for 5 Liters & 20 Ltrs Separately, Raw Water Stoage Tank : Dunction - for Storage of Raw Water, Type / MOC : Two / Three Layered PE tanks White / Transparent in color made from virgin material of food grade Quality suitabke fir the purpose of providing, Storage Drinking / Portable Water : 5000 Liters Capacity	Nos	936540.0	Rupees Nine Hundred Thirty Six Thousand Five Hundred Forty Only
26	6	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A b) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch etc., complete and as per the directions of the Engineer-in-charge of the work	Point	242.55	Rupees Two Hundred Forty Two and Fifty Five Paise Only
27	6	c) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	Point	359.37	Rupees Three Hundred Fifty Nine and Thirty Seven Paise Only
28	30	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete (1.6.5) 4"x4"x3" (101x101x76mm) etc., complete and as per the directions of the Engineer-in-charge of the work	Each	67.32	Rupees Sixty Seven and Thirty Two Paise Only

Signature of the contractor

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Sl No.	Approved Qty.	Description	Unit	Approved Tender Rates of S Narayana Rao ( )	
				In Figures	In Words
29	18	(1.6.1) 12"x12"x3" (300x300x76mm)	Each	114.84	Rupees One Hundred Fourteen and Eighty Four Paise Only
30	15	(1.6.3)10"x7"x3" (254x178x76mm)	Each	86.13	Rupees Eighty Six and Thirteen Paise Only
31	33333	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws etc., complete and as per the directions of the Engineer-in-charge of the work	SqCM	0.25	and Twenty Five Paise Only
32	20	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete. upto 50mm conduit in brick wall etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	20.79	Rupees Twenty and Seventy Nine Paise Only
33	20	Supplying heavy gauge PVC Conduit Pipe 19/20 mm dia 2 mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	55.44	Rupees Fifty Five and Forty Four Paise Only
34	4	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps etc., complete and as per the directions of the Engineer-in-charge of the work	Each	87.12	Rupees Eighty Seven and Twelve Paise Only
35	4	Supplying patti type fluorescent tube light fitting of 2' - suitable for 14 watts fluorescent tube fitting, made out of M.S. Sheet and stove enameled with HF Electronic Ballast , locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC . Supply including T5 lamp etc., complete and as per the directions of the Engineer-in-charge of the work	Each	585.09	Rupees Five Hundred Eighty Five and Nine Paise Only
36	15	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A 1.5 sqmm etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	18.41	Rupees Eighteen and Forty One Paise Only
37	8	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 60/100 watts 230V GLS lamp etc., complete and as per the directions of the Engineer-in-charge of the work	Each	739.53	Rupees Seven Hundred Thirty Nine and Fifty Three Paise Only
38	1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia etc., complete and as per the directions of the Engineer-in-charge of the work	No	2699.73	Rupees Two Thousand Six Hundred Ninety Nine and Seventy Three Paise Only
39	25	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	139.0	Rupees One Hundred Thirty Nine Only
40	25	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	10.69	Rupees Ten and Sixty Nine Paise Only
41	20	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete For Cutting Road Surface etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	84.15	Rupees Eighty Four and Fifteen Paise Only

Signature of the contractor

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Executive Engineer

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Sl. No.	Approved Qty.	Description	Unit	Approved Tender Rates (S Narayana Rao (	
				In Figures	In Words
42	4	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV 40mm dia GI pipe etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	341.55	Rupees Three Hundred Forty One and Fifty Five Paise Only
43	1	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers 16Sqmm etc etc., complete and as per the directions of the Engineer-in-charge of the work	No	277.2	Rupees Two Hundred Seventy Seven and Twenty Paise Only

Signature of the Contractor

Executive Engineer
Byarayanapura Division
BBMP, Bangalore - 92

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